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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.
09/220,016	12/23/98	HOMAN	A	77682-7

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SMART AND BIGGAR
55 METCALFE STREET SUITE 900
P O BOX 2999 STATION D
OTTAWA ON K1P 5Y6
CANADA

AIR MAIL

EXAMINER
APPIAH.C.

ART UNIT	PAPER NUMBER
2745	3

DATE MAILED:

09/29/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

X Responsive to communication(s) filed on _Dec 23, 1998_

☐ This action is **FINAL.**

☐ Since this application is in condition for allowance except for formal matters,   **prosecution as to the merits is closed** in accordance with the practice under _Ex parte Quayle_ 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire _____ _three_ month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claim

    X Claim(s) _1-26_ _____ is/are pending in the applicat

    Of the above, claim(s) _____ is/are withdrawn from consideration

    ☐ Claim(s) _____ is/are allowed.

    X Claim(s) _1-26_ _____ is/are rejected.

    ☐ Claim(s) _____ is/are objected to.

    ☐ Claims _____ are subject to restriction or election requirement.

Application Papers

    X See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

    ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

    ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

    ☐ The specification is objected to by the Examiner.

    ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

    ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

        ☐ All ☐ Some* X None of the CERTIFIED copies of the priority documents have been

        ☐ received.

        ☐ received in Application No. (Series Code/Serial Number) _____ .

        ☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    *Certified copies not received: _____

    ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

    X Notice of References Cited, PTO-892

    X Information Disclosure Statement(s), PTO-1449, Paper No(s). _____2___

    ☐ Interview Summary, PTO-413

    X Notice of Draftsperson's Patent Drawing Review, PTO-948

    ☐ Notice of Informal Patent Application, PTO-152

— SEE OFFICE ACTION ON THE FOLLOWING PAGES —

DETAILED ACTION

Claim Rejections - 35 USC § 102

1.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or

on sale in this country, more than one year prior to the date of application for patent in the United States.

2.   Claims 1-4, 6, 17 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by

Orlen et al. (5,579,535).

Regarding claim 1, Orlen discloses a method of accessing data at a wireless terminal

having virtual memory, the method comprising the steps of:

(a) downloading data from a server over an active wireless link to the virtual memory of the

wireless terminal (storing of received information in data mode, col. 9, lines 27-32, col. 10, line 60

to col. 11, line 62), and

(b) accessing the data stored in the virtual memory of the wireless terminal without requiring the

active wireless link (portable radiotelephone subscriber being able to review the stored

information on an as needed basis in the voice mode, col. 9, lines 37-47 and col. 11, line 62 to col.

12, line 18).

Regarding claim 2, Orlen further discloses viewing some or all of the data stored in the virtual memory of the wireless terminal at the wireless terminal without requiring the active wireless link (see col. 12, lines 2-31).

Regarding claim 3, Orlen further discloses the step of modifying some or all of the data stored in the virtual memory of the wireless terminal at the wireless terminal without requiring the active wireless link (see col. 12, lines 6-18).

Regarding claim 4, Orlen further discloses the step of deleting some or all of the data stored on the virtual memory of the wireless terminal at the wireless terminal without requiring the active wireless link (see col. 12, lines 11-18).

Regarding claim 6, Orlen further discloses immediately after step (a) and before step (b), the step of tearing down the active wireless link (see col. 11, lines 55-60).

Regarding claim 17, Orlen further discloses the step of adding data to the virtual memory of the wireless terminal over the active wireless link (inherent feature of storing received information in the data mode, col. 12, lines 57-67).

Regarding claim 19 , Orlen inherently discloses that the data is added by the server (inherent feature of data transmission by base station in data mode in response to data mode request mode, steps 806, 826, 828).

3.   Claims 22 and 26 are rejected under 35 U.S.C. 102 (b) as being anticipated by **Molne (5,689,547)**.

Regarding claim 22, Molne discloses (with reference to FIG. 3), a wireless terminal

(16c), for use in a communications network, the wireless terminal comprising:

(a) a transceiver for receiving and transmitting information over an active wireless link (18c), with

the communications network (see col. 9, lines 39-58),

(b) virtual memory to store information received over the active wireless link with the

communications network (see col. 10, lines 46-58), and

display means to view the information stored in the virtual memory without requiring the active

wireless link with the communications network (see col. 10, lines 54-58).

Regarding claim 26, Molne discloses a wireless communications network (with reference

to FIG. 3), comprising:

at least one display based (26c) wireless handset (16c) with virtual memory (feature of directory

for storing within radiotelephone, col. 10, lines 56-58),

at least one base station (12c) with which the wireless handset communicates over an active

wireless link (18d),

a central switching controller (MSC 14c) coupled to the base station for controlling the base

station and connectable to an external switched telephone network (PSTN 20d) for selective

switching of the wireless handset to the external switched network (see col. 9, lines 26-38), and a

server (network directory database 22c), connected to the central switching controller by means

of server software running on the server and providing at least one software application to the

wireless handset by means of application software and related data located (feature of

radiotelephone being used to access the network directory database, see col. 9, lines 39-48, col.

10, lines 13-28 and lines 43-49),

wherein server software permits data related to an application to be downloaded over the active

wireless link to the virtual memory of the display based wireless handset (feature of user selected

number being saved in a directory within radiotelephone, col. 10, lines 54-58),

and Molne's teaching of using the individual stored selected number to place a call, col. 10, lines

57-58, col. 11, lines 38-41) reads on the data stored in the virtual memory of the wireless handset

can be accessed without the active wireless link.

Claim Rejections - 35 USC § 103

4.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

5.   Claims 5, 7-14, 15 and 16, are rejected under 35 U.S.C. 103(a) as being unpatentable

over **Orlen et al** as applied to claim 1 above, and further in view of **Helferich (6,087,956)**.

Regarding claim 5, Orlen fails to specifically disclose the step of adding data to the virtual

memory of the wireless terminal at the wireless terminal without requiring the active wireless link.

In a similar field of endeavor, Helferich teaches a system for selectively controlling information

stored in paging transceivers that include adding to stored data without maintaining a wireless

link (see , col. 12, lines 30-38).

It would therefore have been obvious to one of ordinary skill in the art at the time of the invention to combine the above teaching of Helferich with the system of Orlen for the benefit of controlling and managing memory space usage through control of the number and size of data transmissions without sacrificing quality of service to the user.

Regarding claims 7-11, Orlen further discloses the step of modifying some or all of the data stored in the virtual memory of the wireless terminal at the wireless terminal through the periodic transmission of updated information to the telepoint base stations which provides the updated information to requesting subscriber units (see col. 3, lines 55-66, col. 12, lines 6-18). Orlen however, fails to disclose that the step of modifying is performed over the active wireless link including modifying corresponding data stored in mirror memory on the server by the server. Helferich discloses a method for selectively erasing information in a paging transceiver (at the terminal with the additional capability of erasing corresponding remotely stored information (by the server) over an active communication link (see col. 14, lines 1-39) which reads on modifying stored data. It would therefore have been obvious to one of ordinary skill in the art at the time of the invention to combine the above teaching of Helferich with the system of Orlen for the benefit of controlling and managing memory space usage through control of the number and size of data transmissions without sacrificing quality of service to the user.

Regarding claims 12-16, Orlen further discloses further discloses the step of deleting some or all of the data stored on the virtual memory of the wireless terminal at the wireless terminal (see col. 12, lines 11-18), but fails to specifically disclose performing the deleting over the active

wireless link, deleting corresponding data stored in mirror memory on the server and the server performs the deleting step.

Helferich discloses a method for selectively erasing information in a paging transceiver (at the terminal with the additional capability of erasing corresponding remotely stored information (by the server) over an active communication link (see col. 14, lines 1-39). It would therefore have been obvious to one of ordinary skill in the art at the time of the invention to combine the above teaching of Helferich with the system of Orlen for the benefit of controlling and managing memory space usage through control of the number and size of data transmissions without sacrificing quality of service to the user.

6.   Claims 18, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Orlen et al** as applied to claim 17 above, and further in view of **Molne (5,689,547)**.

Regarding claim 18, Orlen fails to specifically disclose the step of adding corresponding data stored in mirror memory of the server.

In an analogous art Molne discloses a method of providing directory assistance in a radiotelephone system which includes adding information to a radiotelephone based on matched information retrieved a database (see col. 2, lines 38-57).

It would therefore have been obvious to one of ordinary skill in the art to provide desired retrieved information without undue searching.

Regarding claims 20 and 21, Orlen further discloses that the data is added at the wireless terminal by the server (inherent feature of data transmission by base station in data mode in response to data mode request mode, steps 806, 826, 828).

7.   Claims 23, 24 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Molne** as applied to claim 22 above, and further in view of **Helferich (6,087,956)**.

Regarding claims 23, 24 and 25, Molne fails to specifically disclose modification means for modifying the data stored in the virtual memory , deletion means for deleting data stored in the virtual memory and addition means for adding data to the virtual memory , all without requiring the wireless link with communications network.

In a similar field of endeavor, Helferich teaches a system for selectively controlling information stored in paging transceivers that include modifying and deleting stored data (see col. 3, lines 30-48) and adding to stored data without maintaining a wireless link (see , col. 12, lines 30-38).

It would therefore have been obvious to one of ordinary skill in the art at the time of the invention to combine the above teaching of Helferich with the system of Molne for the benefit of controlling and managing memory space usage through control of the number and size of data transmissions without sacrificing quality of service to the user.

Conclusion

8.   The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kawamoto (6,108,554), discloses an information providing system.

Kato et al. (6,088,730), discloses a method for controlling information processing.

Takahisa et al. (5,491,838), a system for broadcasting and storing data.

Champion, III et al. (4,812,843), discloses a telephone accessible information system.

Ben-Yehezkel et al. (6,049,711), discloses a system for provision of location-based information

services.

Chanroo et al. (5,684,859), discloses a system for downloading location specific information to

selective call receivers.

Mumick et al. (5,751,798), discloses a passive information access system.

Liebesny et al. (5,131,020), discloses a system for providing updated information to telephonically

linked customers.

Dutton (4,887,308), discloses a broadcast data storage and retrieval system.

King et al. (5,535,428), discloses a system for selectively retaining received messages based on

message content.

9.   Any response to this office action should be mailed to:

Commissioner of Patents and Trademarks

        Washington, D.C. 20231 or faxed to:

        (703) 305-905 1, (for formal communications intended for entry) Or:

(703) 305-9508 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park 11, 2021 Crystal Drive, Arlington.

VA., Sixth Floor (Receptionist).

Art Unit: 2745

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Appiah whose telephone number is (703) 305-4772. The examiner can normally be reached on Monday through Friday (first week of bi-week) and Monday through Thursday (second week of bi-week) from 8:30 a.m. to 6:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reinhard Eisenzopf, can be reached on (703) 305-4711. The fax phone number for this Group is (703) 308-6306 or 308-6296.
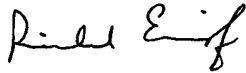
Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4700.

9-23-00

REINHARD J. EISENZOPF
SUPERVISORY PATENT EXAMINER
GROUP 2700

Serial Number: 09/220,016

CA

Charles Appiah

September 16, 2000